In the Claims

The following Listing of Claims replaces all prior versions in the application:

LISTING OF CLAIMS

1. (Currently amended) An aAdaptive routing process of objects in a networ
containing a plurality of routernetwork routers (1) linked between themselves by links (2). Each
each routernetwork router includes: including M incoming links, N outgoing links, internal an
external queues, an M size routing butter and a processing module, and
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————— An M size routing buffer (5) and
A processing module (6)
Early and mantametrically mantaging hains linked with a routing table including values relating t

Each each routernetwork router is being linked with a routing table including values relating to the estimation of the number of deflections undergone by each object at the start of this the routernetwork router for a given destination, the -

The said-process containing including a first initialisation initialization stage (El) for the value tables linked with each router network router and then a recurrent processing stage of each network link, the recurrent processing stage comprising consisting of:

- a) detecting at least one object has arrived on at least one router network router (E2)
- b) considering each network link and seeing determining if there is at least one object on the considered se-links (E3)
 - if there is at least one object on a considered link, yes move moving the at least one objects along the links link of for a unit of time
 - if there is not at least one objected on a considered link, waiting not wait for a unit of time
- c) eonsider considering each network router and for each considered network router

 detect detecting the state of these incoming links (E4)

Serial No. 10/020,414 Atty. Docket No. 034299-372

- if the presence of an object is detected on an entering incoming link and the destination of this object thereof is the considered network router considered, then removing the detected said object having arrived at the destination it is removed from the network,
- if any no object whose with a destination is the considered network of this router is not detected on the incoming links, then eheck checking the state of the internal queue of the considered network router,
- if the internal queue <u>of the considered network router contains</u> objects then transfer transferring these <u>contained</u> objects in the routing buffer of the <u>considered network</u> router (E4b1),
- if the said routing buffer of the considered network router is not full then verify verifying if objects are on standby in the external queue (E4b4) and fill filling the buffer with one or more a part at least of the objects on standby in this external queue (E4b3) characterised by the fact that it consists of.
- allocating the content of the a routing buffer on the outgoing links of the considered network router according to the linked routing table and dynamically estimate estimating the number of deflections which the objects will undergo on forward points of the considered network router to reach their destination (E4c).
- e) updating the linked routing table values to estimate the number of deflections undergone on the <u>a</u> whole path by the objects (E4d5, E4d4).
- 2. (Currently amended) Process according to claim 1, wherein, upon eharacterised by the fact that at the arrival of the an object at a destination router, said destination each router sends to the a preceding router an acknowledgement of receipt indicating the an estimated number of deflections undergone by the object to go up to reach the destination router.
- 3. (Currently amended) Process according to claim 1 characterised by the fact that stages wherein steps c) to e) are carried out successively for each network router.

Serial No. 10/020,414 Atty. Docket No. 034299-372

4. (Currently amended) Process according to claim 1 characterised by the fact that stages wherein steps c) to e) are carried out simultaneously for each network router.

5. (Currently amended) Process according to claim 2 1 characterised by the fact that stage—wherein step c) consists of updating network routing tables by taking into account the information that stage c) consists of taking into account the information contained in the acknowledgment of receipt sent by all the neighbouring routers to update the routing tablesneighboring network routing tables.

- 6. (Currently amended) Process according to claim 2 characterised by the fact that stages wherein steps c) to e) are carried out successively for each network router.
- 7. (Currently amended) Process according to claim 2 characterised by the fact that stages wherein steps c) to e) are carried out simultaneously for each network router.
- 8. (Currently amended) Process according to claim 4 characterised by the fact that stage wherein step c) consists of updating network routing tables by taking into account the information that stage c) consists of taking into account the information contained in the acknowledgment of receipt sent by all the neighbouring routers to update the neighboring network routing tables.